## M1325 Surface Mount Crystal 3.2 x 5 x 0.8 mm



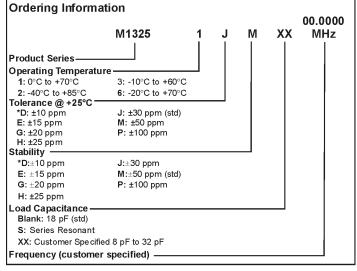
## Features:

- · Ultra-Miniature Size
- Tape & Reel
- · Leadless Ceramic Package Seam Sealed

## **Applications:**

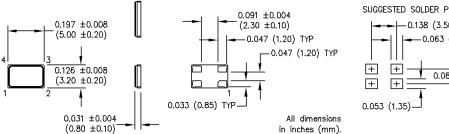
- · Handheld Electronic Devices
- PDA, GPS, MP3
- Portable Instruments

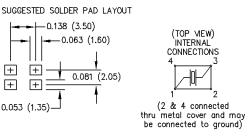




\*Consult Factory

M1325Sxxx - Contact factory for datasheet.





	Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Electrical Specifications	Frequency Range	F	12		54	MHz	
	Frequency Tolerance	F/F	See Ordering Information			ppm	+25°C
	Frequency Stability	F/F	See Ordering Information			ppm	Over Operating Temperature
	Operating Temperature	T <sub>opr</sub>	See Ordering Information			°C	
	Storage Temperature	T <sub>stg</sub>	-55		+125	°C	
	Aging	Fa			±5	ppm/yr	+25°C
	Load Capacitance	C <sub>L</sub>					See Ordering Information
	Shunt Capacitance	C <sub>0</sub>			7	pF	
	ESR						
	Fundamental AT-Cut Frequencies 12.000000 to 19.999999 MHz 20.000000 to 29.999999 MHz 30.000000 to 54.000000 MHz				80 70 50	Ohms Ohms Ohms	AII AII AII
	Drive Level	$D_L$	10	50	100	μW	
	Insulation Resistance	I <sub>R</sub>	500			Megohms	100 VDC
Environmental	Aging	Internal Specification				168 hrs. at +55°C	
	Physical Dimensions	MIL-STD-883, Method 2016					
	Shock	MIL-STD-202, Method 213 Condition C				100 g	
	Vibration	MIL-STD-202, Methods 201 & 204				10 g from 10-2000 Hz	
	Thermal Cycle	MIL-STD-883, Method 1010, Condition B				-55°C to +125°C	
	Gross Leak	MIL-STD-202, Method 112				30 sec. Immersion	
	Fine Leak	MIL-STD-202, Method 112				1 x 10 <sup>-8</sup> atmcc/sec. min.	
	Max Soldering Conditions	See solder profile, Figure 1					
	Resistance to Solvents	MIL-STD-883, Method 2015					Three 1 minute soaks

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.





